



Cooperating Organizations



The Provisional Technical Secretariat (PTS) was established to assist the Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO PrepCom) in carrying out the necessary preparations for the effective implementation of the Treaty.

(CTBT/MSS/RES/1/ Art.1 and 8.c)



Sandia is a multiprogram laboratory operated by Sandia Corporation, a Lockheed Martin Company, for the United States Department of Energy under Contract DE-AC04-94AL85000.



SCIENTIFIC MEETINGS DATABASE:

A NEW TOOL FOR CTBT-RELATED INTERNATIONAL COOPERATION

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21st Seismic Research Symposium: Technologies for Monitoring the Comprehensive Nuclear-Test-Ban Treaty
Las Vegas, Nevada, USA, 22 September 1999



Introduction



Nuclear test explosions have been a part of our world for more than half a century.

- ▶ Over 2090 nuclear explosions have been conducted around the world

The Comprehensive Nuclear-Test-Ban Treaty banning all nuclear explosions was finally negotiated.

- ▶ CTBT was opened for signature on 24 September 1996 at UN HQ in NY
- ▶ The international organization supporting the Treaty began in March 1997
- ▶ To date, 153 countries have signed and 45 have ratified the Treaty

The international organization's main tasks are:

- ▶ Development and maintenance of the
 - International Monitoring System (IMS)
 - International Data Centre (IDC)
- ▶ Preliminary work for conducting On-Site Inspections (OSI)



Introduction, cont.



Reliable verification of Treaty compliance requires international cooperation in the broadest sense.

- ▶ **The IMS will consist of 321 monitoring stations/16 labs working in some 90 states all over the world**
- ▶ **The Treaty gives equal rights and obligations to all States Signatories including the rights to:**
 - **Access data collected by the IMS**
 - **Use data received from the IDC**
- ▶ **Without important international links and cooperation it may be difficult for some States Signatories to take advantage of the possible “direct” benefits of their signatory status**



Introduction, cont.



Achievement of the political goals of the Treaty requires continuous interaction among experts from different countries working in the same fields of science.

▶ **Experts in the monitoring technologies of the IMS**

- seismological
- radionuclide
- hydroacoustic
- infrasound

▶ **Experts developing**

- sophisticated computer systems
- new methods of managing data
 - » transmitting
 - » processing
 - » analysing



Introduction, cont.



Some common tasks and final products are only possible when experts from diverse areas of science and technology are working in concert.

- ▶ **This type of international cooperation might**
 - Enhance interdisciplinary expertise
 - Prove to be a unique technological advantage for the scientific community

- ▶ **This symposium is a good example of such an interdisciplinary CTBT-related meeting**
 - It draws together representatives of each of the monitoring techniques from many different research centers and countries around the world



Introduction, cont.



International scientific cooperation also has additional aspects:

- ▶ **It is a carrier of values, which should be listed among the international confidence-building measures**
- ▶ **Implementation of the CTBT is as much related to human relations as it is to technical verification.**

Both aspects are especially conducive to the development of international cooperation



Mission of International Cooperation



Paragraph 12 of Article IV of the Treaty states:

“The States Parties undertake to promote cooperation among themselves to facilitate and participate in the fullest possible exchange relating to technologies used in the verification of this Treaty in order to enable all States Parties to strengthen their national implementation of verification measures and to benefit from the application of such technologies for peaceful purposes.”

<http://www.ctbto.org/ctbto/treaty.shtml>



Ways and Means of promoting cooperation among States Signatories



The Treaty calls for countries to promote cooperation among themselves.

- ▶ **States have different needs, requirements and national priorities as well as different levels of economic and technological development**

The International Cooperation Section of the PTS helps countries to fulfill this mission.

Early on they identified three priority tasks:

- 1 Discuss expectations of individual States**
- 2 Define the role of the International Cooperation section**
- 3 Identify the most efficient ways/forms of maintaining this role**



Ways and Means of promoting cooperation..., cont.



So far the CTBTO PrepCom/PTS has sponsored the following workshops to discuss international cooperation:

- ▶ **International Cooperation Workshop, held in Vienna, 16-17 November 1998**
- ▶ **Regional Workshop for CTBTO International Cooperation, held in Cairo, Egypt, 1-3 June 1999**

The workshops focused on:

- ▶ **Ways and means to promote cooperation ... so as to facilitate and participate in the fullest possible exchange relating to technologies used in the verification of the Treaty**
- ▶ **Methods for strengthening national implementation of verification measures with maximum benefit from the application of such technologies for peaceful purposes**



Ways and Means of promoting cooperation..., cont.



Two of the main points/conclusions formulated during these workshops are:

- ▶ **Active participation in scientific meetings and propagation of CTBT ideals and work thereon, is a way to advance understanding of and support for the Treaty**
- ▶ **CTBTO could receive and disseminate information concerning relevant issues in a database**

Future IC regional workshops are planned for 2000:

- ▶ **SEAPFE - South East Asia, the Pacific and the Far East**
- ▶ **LAC - Latin America and Caribbean**



Role of Science in CTBT monitoring and verification efforts



This is a very broad topic. Here we highlight the following two points because they are directly related to development of the database of CTBT-related scientific meetings:

- ▶ **Scientific issues associated with nuclear test monitoring involve extremely complex Earth systems**
- ▶ **Elements of the CTBT verification system have the potential for “dual use”**

The Treaty’s implementation-oriented research and cooperation may potentially result in non-CTBT verification-related practical benefits for States Parties (including those not hosting IMS monitoring stations).



Scientific meetings - a window on international cooperation



Early on...

PTS began formulating the idea of developing a database of CTBT verification-related scientific meetings. The assumption was made that it would start, if possible, from the beginning of 1998.

February 1998

Second On-Site Inspection Workshop: participating experts were the first representatives of the CTBT-related international scientific community asked to provide initial meeting information and ideas on how the database should be developed.

March 1999

The first version of the database containing 57 meetings was presented by the PTS in the paper CTBT/PTS/INF.126 .

May 1999

The next version (Rev.1) of the database containing 72 meetings was distributed at WGB's 9th session.

September 1999

The most recent version (Rev.2) containing 94 meetings held in 32 countries is about to be distributed by the PTS.



Scientific meetings - a window on international cooperation, cont.



All States Signatories have been encouraged to actively contribute to this database of scientific meetings

- ▶ **Relevant meeting information**
- ▶ **Observations and advice**

In April 1999 the US DOE suggested that this meeting information be made widely accessible via the Internet on CTBTO's various web sites.

A mock-up demonstration web page was quickly prepared and reported to WGB in May.

In June the necessary changes were completed in Vienna and the scientific meetings information was incorporated into the three CTBTO PrepCom Web Sites.



Database of Scientific and Technical Meetings... "Goes Live" on the Internet



CTBTO PrepCom Open Web Site

Treaty	Signature and Ratification	Verification	Organization	Opportunities	Related Links	Visitor Log
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Preparatory Commission for the Comprehensive Nuclear-Test-Ban Treaty Organization (CTBTO PrepCom), Vienna

At this Web site, the CTBTO PrepCom provides information on the Comprehensive Nuclear-Test-Ban Treaty and activities to establish the global verification regime foreseen in the Treaty. Statements on new developments can be found under "Organization".

ON 13 AUGUST 1999, ESTONIA RATIFIED THE CTBT



<http://www.ctbto.org>



Database of Scientific and Technical Meetings... "Goes Live," cont.



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Treaty	Signature and Ratification	Verification	Organization	Opportunities	Related Links	Visitor Log
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Opportunities

- [Employment](#)
- [International Cooperation](#)
- [Training and Workshops](#)

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International Cooperation

- [Mission of International Cooperation as defined in the Treaty](#)
- [Scientific Meetings Related to CTBT Verification-Related Technologies](#)
- [Workshop in Cairo, 1-3 June 1999](#)

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Scientific Meetings Related to CTBT Verification-Related Technologies

Options:

[List Meetings](#)

[Propose New Meeting](#)

[Reset Defaults](#)

- **Modify default settings:**

- **Limit meetings:**

- to a specific meeting group (forum) by selecting from the list below

- to a selected technology:

- by searching for word or phrase:

☐ Match case

- **Limit timeframe:**

- to specific time range: ☐ Anytime

- or specify year: or month/year:

- **Order meetings:**

- ☒ by date

- ☐ or group sessions by alphabetically sorted meeting groups (forums)

- **Select display view:**

- [View recent updates to database](#)

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Propose a New Scientific Meeting

If you have information about a meeting that should be added to this database, please provide it to us using the form below. The CTBTO Meeting Administrator, Jerzy Knapik (Jerzy.Knapik@ctbto.org), will review the information you submit and will decide whether or not to incorporate it into our meetings database.

Submit New Meeting Information to Jerzy Knapik

Please fill in your name (and organization) as well as information on how we can contact you:

Submitter's
Name (and
Organization):

Name, at least, is **Required**

Contact
Information:

E-Mail address, phone or fax number **Required**

Please fill in below as much information as possible about the meeting to be added:

Forum: **Required**

Select existing
forum:

Hint: Submit with just a selected forum to see listing of all related sessions

or create new
forum:

This Session:

Optional

Venue:

Required

Start Date:

Required -- Format must be 'DD Month YYYY'

Stop Date:

Defaults to **Start Date** if blank



Database of Scientific and Technical Meetings... "Goes Live," cont.



Technologies: ☐ Seismic ☐ Radionuclide ☐ Hydroacoustic ☐ Infrasound

Organizing Institution(s): If more than one institution, separate with semi-colons (";")

Point of Contact:

Name or Org:

E-mail or Fax:

Address of Web Site:

Topics Included:

If more than one topic, separate with semi-colons (";")

Other Details:

Attachments:

Type name of attachment as you would like it to appear in the link which is created, one link per line (files can be uploaded and attached later)

Submit New Meeting Information to Jerzy Knapik

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Database of Scientific and Technical Meetings... "Goes Live," cont.



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All Seismic Research Symposium Meetings

Standard view listed by Date in Chronological order ([toggle](#))

Key: Bold Font> meeting is ongoing or in the future; +> meeting has POC or Web Site; *> details are available; Ⓢ> attachments are included

Meeting Name (:Session)	Venue	Date(s)
Seismic Research Symposium: 20th Annual, on Monitoring a Comprehensive Nuclear-Test-Ban Treaty	Santa Fe, NM, USA	21-23 September 1998
Seismic Research Symposium: 21st Annual, Technologies for Monitoring the Comprehensive Nuclear-Test-Ban Treaty +	Las Vegas, NV, USA	21-24 September 1999

Total number of meetings returned: 2

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All Seismic Research Symposium Meetings

Standard view listed by Meeting Name in Chronological order [\(toggle\)](#)

Key: **Bold Font** > meeting is ongoing or in the future; * > meeting has POC or Web Site; * > details are available; > attachments are included

Meeting Name (:Session)

Venue

Date(s)

Seismic Research Symposium:

[20th Annual, on Monitoring a Comprehensive Nuclear-Test-Ban Treaty](#)

Santa Fe, NM, USA 21-23 September 1998

[21st Annual, Technologies for Monitoring the Comprehensive Nuclear-Test-Ban Treaty](#) *

Las Vegas, NV, USA 21-24 September 1999

Total number of meetings returned: 2

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All Seismic Research Symposium Meetings

Wide view listed by Date in Chronological order ([toggle](#))

Key: **Bold Font** > meeting is ongoing or in the future; * > meeting has POC or Web Site; * > details are available; * > attachments are included

Meeting Name (:Session)	Venue	Date(s)	Organizing Institution(s)	Topics Include
Seismic Research Symposium: 20th Annual, on Monitoring a Comprehensive Nuclear-Test-Ban Treaty	Santa Fe, NM, USA	21-23 September 1998	US Department of Energy; US Department of Defense	Technologies for nuclear monitoring, with particular emphasis on the fields of seismology, hydroacoustics, infrasound and radionuclide monitoring
Seismic Research Symposium: 21st Annual, Technologies for Monitoring the Comprehensive Nuclear-Test-Ban Treaty*	Las Vegas, NV, USA	21-24 September 1999	US Department of Energy; US Department of Defense	N/A POC: Leslie Casey < leslie.casey@hq.doe.gov > URL: http://www.ctbt.md.doe.gov/Symposium1999

Total number of meetings returned: 2

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Scientific Meeting

Meeting Name: [Seismic Research Symposium](#): 21st Annual, Technologies for Monitoring the Comprehensive Nuclear-Test-Ban Treaty

Venue: Las Vegas, NV, USA

Date(s): 21-24 September 1999

Technologies: Seismic
Infrasound
Hydroacoustic
Radionuclide

Organizing Institution(s): US Department of Energy; US Department of Defense

Point of Contact: Leslie Casey <leslie.casey@hq.doe.gov>

Web Site: <http://www.ctbt.rnd.doe.gov/Symposium1999>

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All Scientific Meetings

Standard view listed by Date in Chronological order ([toggle](#))

Key: **Bold Font**= meeting is ongoing or in the future; * = meeting has POC or Web Site; * = details are available; @ = attachments are included

Meeting Name (:Session)	Venue	Date(s)
CTBTO On-Site Inspection Workshop: <i>First Session</i> *	Vienna, Austria	30 July-4 August 1997
NON-PERIODIC MEETING: <i>Workshop on Advanced Methods in Seismic Analysis</i> *	Dead Sea, Israel	12-15 January 1998
CTBTO On-Site Inspection Workshop: <i>Second Session</i> *	Vienna, Austria	2-6 February 1998
Workshop for Continuous Data Protocol	Arlington, VA, USA	11-13 March 1998
Seismological Society of America: <i>93rd Annual Meeting</i>	Boulder, CO, USA	16-18 March 1998
NON-PERIODIC MEETING: <i>International Conference for Training and Information on Radiation Protection and Environmental Monitoring for the Europe of Tomorrow</i>	Breisach, Germany	22-24 April 1998
Africa's Role in Nuclear Science and Technology for Peace and Development: <i>2nd Seminar</i>	Addis Ababa, Ethiopia	24-25 April 1998
CTBTO Informal Experts Workshop: <i>Radionuclide - First Session</i>	Rio de Janeiro, Brazil	4-8 May 1998
Instrumentation and Measurement Technology Conference	St. Paul, MN, USA	18-20 May 1998
CTBTO International Data Centre Workshop: <i>Event Screening</i>	Vienna, Austria	8-11 June 1998
IAEA Meetings: <i>International Conference on the Radiological Situation at the Atolls of Mururoa and Fangataufa</i> *	Vienna, Austria	30 June-3 July 1998
IRIS (Incorporated Research Institutions for Seismology) Workshop: <i>Tenth Annual</i>	Santa Cruz, CA, USA	8-12 July 1998
CTBTO Informal Experts Workshop: <i>Infrasound - First Session</i>	Bruyeres-le-Chatel, France	21-24 July 1998
European Seismological Commission: <i>26th General Assembly</i>	Tel Aviv, Israel	23-28 August 1998
ORFEUS Workshop: <i>26th General Assembly of the European Seismological Commission (ESC)</i>	Tel Aviv, Israel	26 August 1998
CTBTO Evaluation Section Workshop: <i>First Session</i>	Vienna, Austria	7-9 September 1998
International Conference on Non-Proliferation Problems: <i>2nd Session</i>	Kurchatov, Kazakhstan	14-17 September 1998
Seismic Research Symposium: <i>20th Annual, on Monitoring a Comprehensive Nuclear-Test-Ban Treaty</i>	Santa Fe, NM, USA	21-23 September 1998
Conference on Underwater Acoustics: <i>Fourth European Conference</i> *	Rome, Italy	21-25 September 1998
Australian Institute of Physics: <i>13th National Congress</i>	Freemantle, Australia	27 September-2 October 1998
OCEANS: <i>'98: Engineering for Sustainable Use of the Oceans</i>	Nice, France	28 September-1 October 1998
CTBTO Informal Experts Workshop: <i>Radionuclide - Second Session</i>	Bruyeres-le-Chatel, France	2 October 1998
ACM Conference on Computer and Communication Security: <i>5th Session</i>	San Francisco, CA, USA	2-5 November 1998

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ORFEUS Workshop: <i>Installation and operation of broadband seismograph stations</i>	Prague, Czech Republic	9-12 November 1998
IEEE Nuclear Science Symposium (NSS): 1998	Toronto, Canada	10-12 November 1998
Asian Seismological Commission: <i>International Training Course on Seismic Monitoring, Data Analysis and Exchange (Pre-meeting Training Course)</i> *	Hyderabad, India	15-30 November 1998
CTBTO International Cooperation Workshop: <i>First Session</i> *	Vienna, Austria	16-17 November 1998
CTBTO On-Site Inspection Workshop: <i>Third Session</i> *	Vienna, Austria	18-24 November 1998
IAEA Meetings: <i>International Seminar on Safeguards Information Reporting and Processing</i> *	Vienna, Austria	30 November-4 December 1998
Asian Seismological Commission: <i>2nd Meeting, and Symposium on Earthquake Hazard Assessment and Related Topics</i> *	Hyderabad, India	1-3 December 1998
Eastern and Southern Africa Regional Seismological Working Group (ESARSWG): <i>Conference on Seismology, Earthquake Risks and Mitigation</i>	Kampala, Uganda	12-13 January 1999
International Symposium on Acoustic Tomography and Acoustic Thermometry *	Tokyo, Japan	8-10 February 1999
NON-PERIODIC MEETING: <i>International Workshop on Broadband Array Seismology</i> *	Grafenberg, Germany	22-25 February 1999
Environmental and Engineering Geophysical Society Meetings: <i>International Conference on Application of Geophysics to Environmental and Engineering Problems</i> *	Oakland, CA, USA	14-18 March 1999
Acoustical Society of America: <i>FORUM ACUSTICUM 1999, 137th Meeting, 2nd Convention of the European Acoustic Association</i> *	Berlin, Germany	14-19 March 1999
IRIS (Incorporated Research Institutions for Seismology) Workshop: <i>USArray Workshop, First</i> *	Albuquerque, NM, USA	15-17 March 1999
European Union of Geosciences (EUG): <i>10th Meeting</i> *	Strasbourg, France	28 March-1 April 1999
Seismological Society of America: <i>94th Annual Meeting</i> *	Seattle, WA, USA	3-5 May 1999
Symposium on Safeguards and Nuclear Material Management: <i>21st Annual</i> *	Sevilla, Spain	4-6 May 1999
ICTCA International Conference on Theoretical and Computational Acoustics: '99 *	Trieste, Italy	10-14 May 1999
International Conference on Seismology and Earthquake Engineering: <i>3rd Session</i> *	Tehran, I.R. Iran	17-19 May 1999
ISTC International Workshops : <i>PRITT 99, Potential of Russian Nuclear Centers in Tritium Technologies</i> *	Sarov, Russian Federation	17-21 May 1999
EAA International Symposium on Hydroacoustics: <i>2nd Session</i> *	Gdansk-Jurata, Poland	24-27 May 1999
CTBTO On-Site Inspection Workshop: <i>Fourth Session - Later Periods of On-Site Inspection: Methodology, Equipment and Logistics</i> *	Vienna, Austria	25-31 May 1999
A G U (American Geophysical Union): <i>1999 Spring Meeting</i> *	Boston, MA, USA	31 May-4 June 1999
CTBTO International Cooperation Workshop: <i>Second Session, Regional</i> @ *	Cairo, Egypt	1-3 June 1999
NATO Advanced Research Workshop: <i>Nuclear Physical Methods in Radiological Investigations of Nuclear Test Sites</i> * *	Almaty, Kazakhstan	7-10 June 1999
ICRM (International Committee for Radionuclide Metrology): <i>1999, Conference on Radionuclide Metrology</i> *	Prague, Czech Republic	7-11 June 1999

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Database of Scientific and Technical Meetings... "Goes Live," cont.



European Association of Geoscientists and Engineers (EAGE) Conference and Exhibition: 61st, in Helsinki *	Helsinki, Finland	7-11 June 1999
IRIS (Incorporated Research Institutions for Seismology) Workshop: Eleventh Annual *	Tenaya Lodge, Yosemite, CA, USA	9-13 June 1999
CTBTO Evaluation Section Workshop: Second Session *	Hanover, Germany	21-23 June 1999
International Congress of the East European Acoustical Association: First *	St. Petersburg, Russian Federation	28-30 June 1999
International Congress on Sound and Vibration: Sixth Meeting *	Copenhagen, Denmark	5-8 July 1999
NON-PERIODIC MEETING: PAPHOS99, International Workshop on Tomographic Imaging of 3-D Velocity Structures and Accurate Earthquake Location *	Paphos, Cyprus	5-9 July 1999
International Union of Geodesy and Geophysics: IUGG99 - 22nd General Assembly *	Edgbaston, Birmingham UK	18-30 July 1999
International Congress of Radiation Research: 11th *	Dublin, Ireland	19-24 July 1999
Environmental and Engineering Geophysical Society Meetings: European Section: Fifth Meeting *	Budapest, Hungary	6-9 September 1999
NON-PERIODIC MEETING: European Aerosol Conference *	Czech University of Agriculture, Prague, Czech Republic	6-10 September 1999
CTBTO International Data Centre Workshop: Global Communications Infrastructure (GCI) *	Vienna, Austria	13-15 September 1999
OCEANS: '99: Riding the Crest into the 21 Century *	Seattle, WA, USA	13-16 September 1999
Open Seminar on Acoustics: XLIV *	Zakopane, Poland	14-17 September 1999
Seismic Research Symposium: 21st Annual, Technologies for Monitoring the Comprehensive Nuclear-Test-Ban Treaty *	Las Vegas, NV, USA	21-24 September 1999
IRIS (Incorporated Research Institutions for Seismology) Workshop: USArray Workshop, Second *	Houston, TX, USA	26-27 September 1999
GFZ International Training Courses: Regional International Training Course on "Seismology, Seismic Hazard Assessment and Risk Mitigation" **	Beijing, China	26 September-30 October 1999
Workshop on Hydroacoustic Technology for the CTBT *	Papeete, Tahiti, French Polynesia	27 September-1 October 1999
Seismological Society of America: 71st Annual Meeting of Eastern Section *	Memphis, TN, USA	18-20 October 1999
ICRM (International Committee for Radionuclide Metrology): Low-level Techniques Working Group Conference *	Mol, Belgium	18-22 October 1999
NON-PERIODIC MEETING: Broad-Band Seismic Observations and the Geodynamics of the Scotia Sea Region, Antarctica *	ICTP, Trieste, Italy	25-26 October 1999
IEEE Nuclear Science Symposium (NSS): 1999 *	Seattle, WA, USA	26-28 October 1999
Acoustical Society of America: 138th Meeting *	Columbus, OH, USA	1-5 November 1999
NATO Advanced Research Workshop: Monitoring of Natural and Man-Made Radionuclides and Heavy Metal Waste in Environment *	Dubna, Russian Federation	2-5 November 1999
CTBTO On-Site Inspection Workshop: Fifth Session - Planning and Examination of Inspection Phases *	Farnborough, United Kingdom	8-12 November 1999
INTERNATIONAL GEOLOGICAL CORRELATION PROGRAM (IGCP): GPA 99 International Workshop TECTONICS, GEODYNAMICS AND NATURAL HAZARD IN WEST PACIFIC-ASIA *	Hanoi, Vietnam	10-11 November 1999
CTBTO On-Site Inspection Seminar: First International Seminar on OSI Technologies and Procedures *	Tehran, Iran (Islamic Republic of)	30 November-2 December 1999

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NON-PERIODIC MEETING: Workshop on Seismic Hazards in Eastern and Southern Asia and the Operation of CTBT Auxiliary Seismic Stations *	Manila, Philippines	4-8 December 1999
A G U (American Geophysical Union): 1999 Fall Meeting *	San Francisco, CA, USA	13-17 December 1999
Environmental and Engineering Geophysical Society Meetings: 2000 SAGEEP, Symposium on the Application of Geophysics to Environmental and Engineering Problems *	Arlington, VA, USA	20-24 February 2000
German Acoustics Society Annual Meeting: DAGA 2000, 26 Annual Meeting *	Oldenburg, Germany	20-23 March 2000
International Radiation Protection Association: IRPA-10, The Tenth International Congress *	Hiroshima, Japan	14-19 May 2000
CPEM, Conference on Precision Electromagnetic Measurements: CPEM 2000 *	Sydney, Australia	14-19 May 2000
A G U (American Geophysical Union): 2000 Spring Meeting *	Washington DC, USA	30 May-3 June 2000
International Symposium on Radiation Physics: 8th Session; ISRP-8 *	Prague, Czech Republic	5-9 June 2000
Seismic Waves in Laterally Inhomogeneous Media: Fifth Session *	Castle of Trest, Czech Republic	5-9 June 2000
Western Pacific Geophysics Meeting: 2000 *	Shinjuku, Tokyo, Japan	27-30 June 2000
International Congress on Sound and Vibration: Seventh *	Garmisch-Partenkirchen, Germany	4-7 July 2000
International Conference on Mathematical and Numerical Aspects of Wave Propagation: Fifth, WAVES 2000 *	Santiago de Compostela, Spain	10-14 July 2000
International Congress of Theoretical and Applied Mechanics: 20th, ICTAM 2000 *	Chicago, Illinois, USA	27 August-2 September 2000
Western Pacific Regional Acoustics Conference: Seventh; WESTPRAC VII *	Kumamoto, Japan	3-5 October 2000
IEEE Nuclear Science Symposium (NSS): 2000 IEEE Nuclear Science Symposium *	Lyon, France	15-20 October 2000
Asian Seismological Commission: 3rd Meeting *	Tehran, I.R. Iran	November 2000 (to be decided)
International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics: IV *	San Diego, CA, USA	26-31 March 2001
European Union of Geosciences (EUG): 11th Meeting *	Strasbourg, France	8-11 April 2001
International Congress on Acoustics: 17th *	Rome, Italy	2-7 September 2001
Assembly of the International Association for Physical Sciences of the Ocean: 2001: An Ocean Odyssey *	Mar del Plata, Argentina	21-28 October 2001

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